

2006 WSEC RESIDENTIAL COMPLIANCE CHECKLIST

THIS CHECKLIST MUST BE COMPLETED FOR ALL RESIDENTIAL NEW CONSTRUCTION AND ADDITIONS.

THIS CHECKLIST ALONG WITH THE APPROVED PLANS MUST BE KEPT ON THE JOB AT ALL TIMES. INSPECTORS CANNOT PERFORM INSPECTIONS WITHOUT IT.

1. **About this checklist:** This checklist is not as involved as it looks, because you only use portions of it for a particular dwelling project. This should be thought of as a tool for learning the residential WSEC requirements.

Requirements are grouped by foundation, framing, insulation, and final inspection phases. This not only lets you know what you need to do but also when the inspector will be checking for particular requirements. Use the checklist to choose compliance options that best suit the economics and design of your project.

If you have questions, you may contact Jan Conklin at (425) 430-7276.

2. **Responsibility for information:** Although staff members will help you with general questions about completing this checklist, it is ultimately your responsibility to provide detailed information about heating systems, glazing, insulation, and other building specifications.
3. **Page 1, Compliance Options:** Select one compliance option, your building must match the selected option requirements without exceptions or substitutions.
4. **Pages 2 through 6:** Provide information as required but do not fill in the columns labeled "COMPLIANCE REQUIRED" or "INSPECTION APPROVED".

Since this checklist will be evaluated for completeness and accuracy, you can avoid unnecessary permit delays by carefully providing all required information. You may disregard items that don't address your particular building or equipment.

EFFECTIVE 7/1/2007

ALL RESIDENTIAL OCCUPANCIES

ALL FUEL TYPES

CHAPTER 6, PRESCRIPTIVE OPTIONS FOR ALL R OCCUPANCIES

INSTRUCTIONS:

- 1) Carefully review the requirements of each of the Options below. Choose an Option that best suits your dwelling design. Glazing percentage typically determines which Option to choose. Your building must match the selected Option requirements without exceptions or substitutions.
- 2) Disregard components or equipment that don't apply to your project. Your permit will be processed more efficiently if you provide all of the requested information.

	SINGLE FAMILY		MULTI-FAMILY		
		Standard Option			
Check appropriate box	OPT 1	OPT 4		OPT 3	OPT 5
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
GLAZING MAX: % OF FLOOR	10%	Unlimited		25%	Unlimited
U-FACTOR- VERTICAL	.32	.35		.40	.35
U-FACTOR-Overhead (Skylights)	.58	.58		.58	.58
DOOR U-VALUE	.20	.20		.20	.20
CEILINGS:					
WITH ATTICS	R-38	R-38		R-38	R-38
VAULTED*see below	R-30	R-30		R-30	R-30
WALLS:					
ABOVE GRADE	R-15	R-21		R-21	R-21
BELOW GRADE					
INTERIOR	R-15	R-21		R-15	R-15
EXTERIOR	R-10	R-10		R-10	R-10
FLOOR:	R-30	R-30		R-30	R-30
SLAB ON GRADE:	R-10	R-10		R-10	R-10

R-values are for wood frame assemblies only

*Single rafter or joist vaulted ceilings where both (a) the distance between the top of the ceiling and the underside of the roof sheathing is less than 12 inches and (b) there is a minimum of 1-inch vented airspace above the insulation. This option is limited to 500 square feet of ceiling area for any one dwelling unit. All other single rafter or joist vaulted ceilings shall comply with the "ceiling with attics" requirements.

FOUNDATION PHASE

COMPLIANCE REQUIRED

INSPECTION APPROVED

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- 1) Slab insulation R10 required.
 _____ a. Exterior - See #21 & #34
 _____ b. Interior – from top of slab to bottom and then horizontal for a total of 24”.

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- 2) Radiant Slab insulation R-10 required under whole slab.

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- 3) Thermal break(s) shall be placed in the slab between conditioned and unconditioned space checked below:
 _____ a. dwelling/garage
 _____ b. dwelling/connected space
 _____ c. slab edge and foundation wall

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MECHANICAL AND PLUMBING PHASE

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- 4) Exhaust ventilation shall be provided for each dwelling unit as follows:

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Location	Minimum CFM	Manufacturer and Model#	CFM (.1 W.G.)
Kitchen fan	100 CFM		
Bathroom fan	65 CFM		
Bathroom fan	65 CFM		
Bathroom fan	65 CFM		
Laundry fan	65 CFM		
Whole house fan			
80 CFM min (1-3 bedrooms)			
100 CFM min (4 bedrooms)			
120 CFM min (5 bedrooms)			

Whole house fan required in all new houses/dwelling units and all additions >500 square feet

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- 5) Whole house fan:
 Location _____ Sone rating (.1W.G.)_____

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- a. Whole house fan: to be controlled by a readily accessible 24-hour clock timer with capability of continuous operation, manual and automatic controls set to exhaust 8 hours per day.
 b. Whole house fan shall be listing/labeled "for continuous use"
 c. Whole house fan wiring for control routed to central location
 d. Whole house fan shall be labeled "Whole House Ventilation (see operating instructions)"

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- 6) Mechanical exhaust fan ducts shall be $\geq 4"$ and properly sized.

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- 7) Mechanical exhaust fan ducts shall be insulated to R-4 in unconditioned spaces.

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- 8) Mechanical fresh air supply ducts shall be insulated to R-4 in conditioned spaces.

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- ☐ 9) Provide heat loss calculations for heating system sizing. Heating system requirements will be met with the following:
Mfr. _____ Model # _____
Output _____ Fuel Type _____ Efficiency rating (AFUE) _____ ☐
- ☐ 10) Supply and return air ducts shall have sealed joints and seams in unconditioned spaces. Tapes and mastics listed in accordance with UL181A or B – **NO DUCT TAPE PERMITTED** ☐
- ☐ 11) HVAC plenums, supply, and return air ducts insulated to R-8. ☐
- ☐ 12) Water heaters shall have: ☐
- Separate power, or gas shut-off
 - 1987 NAECA label on tank
 - Non-compressible R-10 pad (electric in unheated spaces or on concrete floors)
 - Temperature setting of 120F

FRAMING PHASE

- ☐ 13) All structural panels such as plywood, particle board, wafer board, and oriented strand board shall be labeled "EXPOSURE I" "EXTERIOR" or "HUD APPROVED". ☐
- ☐ 14) Glazing efficiency required shall be:
__U≤ .32 Options 1 __U≤ .35 Options 2, 4 & 5 __U≤ .40 Options 3 ☐
- ☐ 15) Window specifications: ☐

Manufacturer	U-Factor

- ☐ 16) Skylight specifications – Maximum U-factor = .58 ☐

# of Skylights	Manufacturer	Area	U-Factor

- ☐ 17) Allowed glazing area is derived by dividing the total glazing area of _____ SQ FT by the total floor area of _____ SQ FT ☐
This value cannot exceed the glazing percentage of your option:
__≤ 10% Option 1 __≤ 25% Option 3 __≤ Unlimited Option 4 & 5
- ☐ 18) Glazing air leakage measures shall be met as follows: ☐
Fixed site built: stops with sealant or caulking all around.
Operating site built: weather-stripped with closer/latch.
- ☐ 19) Insulation shall be placed in concealed places such as: ☐
- Behind shower/tub
 - Behind partition studs/corners

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|--------------------------|---|--------------------------|
| <input type="checkbox"/> | 34) Exposed foam insulation shall comply as follows:
Protected w/metal or plastic flashing that extends below grade
Be approved for subgrade, exterior use & properly installed. | <input type="checkbox"/> |
| <input type="checkbox"/> | 35) Airflow between fresh air ports and whole house fan ensured by ½" undercut doors/grills. | <input type="checkbox"/> |
| <input type="checkbox"/> | 36) Loosefill insulation OK if maximum ceiling slope not > 3 in 12 and there is ≥ 30 " of clear distance from top of bottom chord to underside of roof sheathing at the roof ridge. | <input type="checkbox"/> |
| <input type="checkbox"/> | 37) 6 mil black poly ground cover, lapped 12" at joints | <input type="checkbox"/> |
| <input type="checkbox"/> | 38) Clearances shall meet listed, minimums between insulation and chimney | <input type="checkbox"/> |
| <input type="checkbox"/> | 39) Attic hatch insulated to ceiling R-value and weather-stripped. | <input type="checkbox"/> |
| <input type="checkbox"/> | 40) Attic access shall have wood dam to retain loose-fill insulation. | <input type="checkbox"/> |
| <input type="checkbox"/> | 41) All exterior doors to be weather-stripped. | <input type="checkbox"/> |
| <input type="checkbox"/> | 42) Heat pump thermostat shall have programmable capability. | <input type="checkbox"/> |
| <input type="checkbox"/> | 43) Caulking is installed around light fixtures and flue penetrations. | <input type="checkbox"/> |
| <input type="checkbox"/> | 44) Service hot & cold water piping to be insulated to R-4 in unconditioned spaces. | <input type="checkbox"/> |
| <input type="checkbox"/> | 45) Service recirculation hot water piping shall be insulated per code. | <input type="checkbox"/> |
| <input type="checkbox"/> | 46) Supply ducts shall have volume dampers to balance the system. | <input type="checkbox"/> |
| <input type="checkbox"/> | 47) Thermostat for each HVAC system with range of 55-75 F. | <input type="checkbox"/> |
| <input type="checkbox"/> | 48) Readily accessible, automatic or manual means provided to restrict or shut-off heating input to each zone or floor | <input type="checkbox"/> |
| <input type="checkbox"/> | 49) Backup heat prohibits simultaneous operation of primary system. | <input type="checkbox"/> |
| <input type="checkbox"/> | 50) Spot exhaust fans to have timer, dehumidistat, or switch. | <input type="checkbox"/> |
| <input type="checkbox"/> | 51) Showers and lavatories shall limit flow to ≤ 3.0 gals per minute. | <input type="checkbox"/> |
| <input type="checkbox"/> | 52) Swimming pools shall have:
a) Readily accessible ON/OFF switch to allow shutting off the heater or pump
b) Pool Cover
c) Piping insulation per code
d) Controls to allow temperature range down to 65 degrees F | <input type="checkbox"/> |
| <input type="checkbox"/> | 53) All fireplaces shall have:
a) 6 sq in comb. air supply duct with damper connected to fire box
b) Tight fitting ceramic glass or metal doors
c) Tight fitting flue damper | <input type="checkbox"/> |
| <input type="checkbox"/> | 54) Solid fuel burning appliances shall have:
a) Tight fitting ceramic glass or metal doors
b) Outside combustion air source directly connected to fire box
c) Exceptions - see code | <input type="checkbox"/> |
| <input type="checkbox"/> | 55) Outdoor lighting permanently mounted to a residential building shall be high efficacy. | <input type="checkbox"/> |

PLAN REVIEWER APPROVAL: _____ DATE: _____

FINAL INSPECTION APPROVED:

INSPECTED BY: _____ DATE: _____